facelift
access and safety made easy

0800 52 15 95
www.facelift.co.uk

nifty 170

shortform operating instructions

road towable access

This book is designed as a guide to enable you to start work quickly and safely. It is not intended to replace the full manufacturer's operating instructions (a copy of which should be with your machine) which should be read and understood by anyone operating the machine.

SAFETY TIPS

ALWAYS

- Inspect your machine before use.
- Check all operations including ground controls.
- Check ground conditions.
- Check clearance from overhead obstructions (power cables, building projections etc).
- Plan your task/job.
- Use sole boards under your outriggers at all times regardless of ground conditions.
- Stabilise and level machine before use.
- Wear a safety harness connected to a suitable anchorage point inside the platform.
- Operate all controls smoothly.
- Warn other people that you are there by means of flashing lights, sign and cones.
- MAKE SAFETY YOUR No.1 PRIORITY.

NEVER

- Use an unsafe machine.
- Use an access platform to hoist loads like a crane.
- Overload cage/platform.
- Operate in strong winds (Check manufacturer's recommendation).
- Rest the cage on a structure or object to gain extra support.
- Attach your safety harness to a structure outside of the platform.
- Throw or drop anything from the platform.
- Use boxes, ladders or stand on handrails to gain additional height, if you can't reach, you need a bigger machine.
- Let an untrained person operate the access platform.
- Take unnecessary risks (hospitals and graveyards are full of dead heroes!)

In the unlikely event that your machine develops a fault
please contact the Facelift Tech Team on 01444 881100

CONTENTS

Daily Safety Check List 1

Setting Up Procedures 1

Ground Control Operation 2

Platform Control Operation 2

Platform Pushbutton Controls Station.....3

Starting The Engine From The Platform 3

Power System Changeover 3

Boom Controls 4

Towing 4

Emergency Controls 5

Notes 5

DAILY SAFETY CHECK LIST

Before use each day and at the beginning of each shift the aerial platform shall be given a visual inspection and functional test including, but not limited to, the following:

1) Read and fully understand Operating and Safety Manual.
2) Check safety belts and hard hats.
3) Check all decals and placards to see if in place and legible.
4) Check platform is securely fastened to platform support.
5) Check wheels and tyres. (54psi or 65psi (bi-energy)).
6) Check outriggers (if applicable) for condition, microswitch operation and security.
7) Check batteries for condition, cleanliness, connections and electrolyte levels.
8) Check engine oil, fuel and coolant levels (if applicable).
9) Check installation of all guards, covers and boom clamps.
10) Check for loose, missing or damaged parts.
11) Check all hydraulic hoses and electrical cables and wiring.
12) Check hydraulic, fuel and air systems for leaks.
13) Do not exceed rated platform capacity 440 lbs (200kgs).
14) Check foot pedal for proper operation (if applicable).
15) Check all operating emergency controls – Select an area free from obstructions and hazards. Exercise extreme caution throughout the checking procedure especially when checking brakes.
16) Check operation of emergency hand pump.
17) Check brakes and all lights.
18) Check tilt sensor/alarm horn and beacons (if fitted).
19) Check high engine and/or high drive limit switches.
20) Check and refer to Operating and Safety Manual for further daily/periodic checks and inspections.

SETTING UP PROCEDURES

FAILURE TO DEPLOY THE OUTRIGGERS CORRECTLY COULD RESULT IN DEATH OR SERIOUS INJURY.

ALL MODELS

1) Read and fully comply with all safety precautions and operating instructions in the Operating and Safety manual and the warning decals on the machine.
2) Position Niftylift on firm, level ground. NEVER work with base across or adjacent to any slope. Use the manual jacks to level the base of the machine, if necessary using suitable load bearing pads to support the downhill jacks. A slope of up to 12 degrees can be accommodated in this fashion. Do not elevate the platform unless the base can be corrected to within 3 degrees of level.
3) Position Niftylift, bearing in mind range of boom movement so that any overhead obstruction or possible hazards such as, but not limited to, power cables, telephone lines, drains, man-hole covers, etc.
4) If the load bearing capacity of the ground is in any doubt the machine must not be used.
5) **APPLY HANDBRAKE**; chock wheels and cordon off area using appropriate cones, barriers and flags.
6) Release boom travelling clamp.
7) Check all red emergency stops are not engaged i.e. fully out.
8) Hydraulic outriggers proceed to Step 9. Manual outriggers proceed to Step 16.
9) Ensure selector handvalve adjacent to ground control station is turned fully down to outrigger position.
10) Ensure key switch selector at ground control station is turned to ground position i.e. fully down.
11) From the outrigger control station depress and hold the green power button to give hydraulic power to the outriggers and select the appropriate control lever. Note: No power will be available if the booms are not stowed onto the boom rest.
12) Using the four outrigger control levers, lower each outrigger onto a firm, level surface and level machine base ensuring each outrigger foot is taking equal weight with the wheels clear of the ground. Deploy front two outriggers first to minimise the risk of damaging the jockey wheel.
13) Check base is level using spirit level adjacent to outrigger control station.
14) Change selector valve at ground control station to platform i.e. turn fully up.
15) The booms can now be operated from the ground control station by depressing and holding the green power button. Note: If no power is available check each outrigger is lowered and each footpad is taking equal weight.

MANUAL OUTRIGGER MODELS

16) Leave ground control key in centre “OFF” position until jacks are deployed. Turning this key to “Platform” position will cause the Klaxon to sound, as the outriggers will detect that the jacks are not in contact with the ground.
17) All four outrigger beams must be fully extended and retaining pins engaged (dropped) and all jack feet screwed hard down onto a firm, level surface.
18) Level base using the two spirit levels mounted on the base.
19) To operate the booms from the ground turn the key switch selector at the ground control station to ground, i.e. fully down. Depress and hold green power button and select appropriate control lever. Note: if no power is available check each retaining pin has engaged (dropped) and each jack foot is screwed hard down onto a firm, level surface.
20) To operate the booms from the platform turn the key switch selector at the ground control station to platform i.e. fully up. Note: If alarm sounds return key to centre off position and check each retaining pin has engaged (dropped) and each jack foot is screwed hard down onto a firm, level surface.

ALL MODELS

21) Always lower booms fully before adjusting, raising, retracting or moving the outriggers in any way.
22) Never alter, modify or block any of the safety circuits on the Niftylift.

GROUND CONTROL OPERATION

ALWAYS ALLOW THE ENGINE TO WARM UP BEFORE OPERATING.

ALL MODELS

1) Ensure all red emergency stops are out.
2) Turn key switch at ground control station to ground (i.e. fully down).
3) Ensure selector hand valve (if applicable) is turned to platform position i.e. fully up.
4) Battery electric models go to step 10).

DIESEL ENGINE OR BI ENERGY MODELS

5) Turn duty selector in platform to BATT (Battery) or ENG (Engine).
6) If BATT (Battery) is selected go to step 10).
7) If ENG (Engine) is selected go to step 8). for a COLD ENGINE or step 9). for a WARM ENGINE.
8) COLD ENGINE. turn the main engine ignition switch (located beneath the front cover) through ON to GL. This engages the glow plug pre-heat system. Hold for 3-5 seconds then turn key fully to ST (start) position and the engine will fire.
9) WARM ENGINE turn the main engine ignition switch (located beneath the front cover) through ON to ST (start) position and the engine will fire.

GASOLINE (PETROL) ENGINE OR GASOLINE (PETROL)/ELECTRIC MODELS

5) Turn duty selector in platform to BATT (Battery) or ENG (Engine).
6) If BATT (Battery) is selected go to Step 10).
7) If ENG (Engine) is selected go to Step 8). for a COLD ENGINE or Step 9). for a WARM ENGINE.
8) COLD ENGINE. turn the engine fuel tap on and engage the choke lever. Turn the main engine ignition through ON to ST (Start) and the engine will fire. Return the choke lever to its normal running position after the engine is started.
9) WARM ENGINE. turn the engine fuel tap on and turn the main engine ignition through ON to ST (start) position and the engine will fire.

ALL MODELS

10) Push and hold green power button.
11) Select function and operate handlevers in full accordance with manufacturers operating and safety manual.
12) To return control to platform turn key fully clockwise to up position.
13) When not in use return machine to stowed position, fully raise and stow all outriggers, turn key to centre off position, remove key and chock wheels.

EMERGENCY PROCEDURES

14) Push in red emergency stop to shut down all functions.
15) Operate emergency hand pump and lower on hand lever controls.
16) To swing booms fit a 1/2 in drive socket to the end of the slew worm gear and crank round manually.

BOOM FUNCTIONS

A) Push and hold green “Power Control” button.

1 2 3 4

B) Select lever 1, 2, 3, or 4 for desired boom function.

1 Operates Telescope UP for out DOWN for in.
(If applicable, Ground control of telescope function is an option)
2 Operates Lower boom UP for up DOWN for down.
3 Operates Upper boom UP for up DOWN for down.
4 Operates SLEW (Swing) UP for right DOWN for left.

ALWAYS ENSURE THE AERIAL PLATFORM IS ON A FIRM LEVEL SURFACE AND THE AREA IS FREE OF ANY OVERHEAD OBSTRUCTIONS.

ENGAGING THE RED EMERGENCY STOP BUTTON WILL SHUT DOWN THE ENGINE, AND THE ELECTRIC CIRCUIT PREVENTING OPERATION OF ANY FUNCTION.

PLATFORM CONTROL OPERATION

NEVER START THE NIFTYLIFT IF YOU SMELL PETROL (GASOLINE), LIQUID PROPANE OR DIESEL. THESE FUELS ARE FLAMMABLE.

BEFORE OPERATING THE NIFTYLIFT ENSURE THAT EACH OPERATOR HAS READ AND FULLY UNDERSTOOD THE OPERATING MANUAL. FAILURE TO DO SO MAY RESULT IN DEATH OR SERIOUS INJURY.

ALL MODELS

1) Ensure all red emergency stops are out.
2) Turn key switch at ground control station fully up to platform position.
3) Ensure selector hand valve (if applicable) is turned to platform position i.e. fully up.
4) Battery electric models go to step 10.

DIESEL ENGINE OR BI ENERGY MODELS ONLY

5) Turn duty selector in platform to BATT (Battery) or ENG (Engine).
6) If BATT (Battery) is selected go to Step 10).
7) If ENG (Engine) is selected go to Step 8) for cold engine or Step 9) for a warm engine.
8) COLD ENGINE Turn the main engine ignition switch (located beneath the front cover) through ON. Hold 3-5 seconds then turn key fully to ST (start) position and the engine will fire.
9) WARM ENGINE Turn the main engine ignition switch (located beneath the front cover) through ON to ST (start) position and the engine will fire.

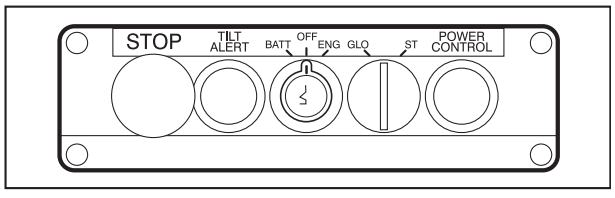
PETROL (GASOLINE) ENGINE OR PETROL (GASOLINE)/ELECTRIC MODELS ONLY

5) Turn duty selector in platform to BATT (Battery) or ENG (Engine).
6) If BATT (Battery) is selected go to Step 10).
7) If ENG (Engine) is selected, ensure the fuel tap is turned to the ON position and then go to Step 8) for cold engine or Step 9) for a warm engine.
8) COLD ENGINE (From the ground only) turn the engine fuel tap on and engage the choke lever. Turn the main engine ignition through ON to ST (Start) and the engine will fire. Return the choke lever to its normal running position after the engine is started.
9) WARM ENGINE Turn the main engine ignition switch (located beneath front cover) through ON to ST (start) position and the engine will fire.

ALL MODELS

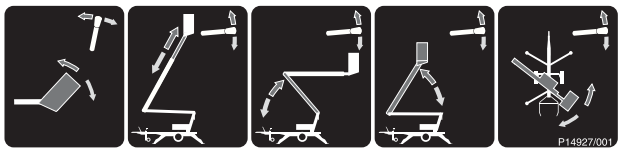
10) Ensure key switch selector is turned to ON or BATT (Battery) if applicable.
11) Depress foot switch or push and hold green power button.
12) Select function and operate hand levers in full accordance with manufacturers operating and safety manual.
13) When not in use return booms to stowed position. Fully raise and stow all outriggers. Turn key switch at ground control to centre off position, remove key and chock wheels.

PLATFORM PUSHBUTTON CONTROLS STATION



(BI-ENERGY MODEL SHOWN)

BOOM FUNCTIONS



1 2 3 4 5

Select lever 1, 2, 3, 4, or 5 for desired function.

1 Operates Platform Lever	FWD for fwd	BACK for back.
2 Operates Telescope	UP for out	DOWN for in.
3 Operates Lower Boom	UP for up	DOWN for down.
4 Operates Upper Boom	UP for up	DOWN for down.
5 Operates Swing	UP for right	DOWN for left

STARTING THE ENGINE FROM THE PLATFORM

NEVER START THE NIFTYLIFT IF YOU CAN SMELL PETROL (GASOLINE), LIQUID PROPANE OR DIESEL. THESE FUELS ARE HIGHLY FLAMMABLE.

******FOR COLD START PROCEDURES SEE PLATFORM CONTOL OPERATION: STEP 8**

A) Ensure main engine ignition located below front cover is turned to ON position.
B) Ensure that all EMERGENCY STOPS are not engaged (i.e. must be fully out).
C) Ensure the key switch selector located at the ground control station is turned to platform (i.e. fully up).
D) Ensure the duty selector in the platform is in the ENG (Engine) position.
E) Turn the selector switch to START and the engine will fire.
F) To shut down the engine from the platform simply turn the duty selector to OFF or BATT (Battery) or in an emergency depress the RED Emergency stop button.

POWER SYSTEM CHANGEOVER

ENGINE TO BATTERY

1) Engage any RED Emergency Stop button to shut down the engine.
2) Re-set RED Emergency Stop button.
3) Turn the duty selector in the platform to BATT (Battery).

BATTERY TO ENGINE

1) Ensure all RED Emergency Stops are out.
2) Ensure main engine ignition switch located at the ground is turned to ON.
3) Turn the duty selector in the platform to ENG (Engine).

4) Push the BLACK START button located behind the main push button control station and the engine will fire.

PETROL (GASOLINE) TO GAS

1) Locate petrol shut-off valve on carburettor, and turn petrol to OFF position.
2) Run engine until all of the Petrol is exhausted, i.e. engine stops.
3) Open valve on gas bottle, introducing supply to the vapouriser.
4) Turn engine over until it fires, allow vapouriser to achieve running temperature before using machine. If engine runs erratically, check that all petrol has been used from bowl.

GAS TO PETROL (GASOLINE)

1) Turn gas off by shutting valve on the bottle – ensure that it is fully closed.
2) Open fuel shut-off valve on engine carburettor, and allow it to fill with petrol.
3) Turn engine over until it fires.

BOOM CONTROLS

DO NOT OPERATE THE NIFTYLIFT WHILST ELEVATED UNLESS ON A FIRM, LEVEL SURFACE FREE FROM ANY POSSIBLE OBSTRUCTIONS OR HAZARDS BOTH AT GROUND LEVEL AND OVERHEAD.

IF ALARM SOUNDS – DESCEND IMMEDIATELY.

1) Never exceed the maximum platform capacity
2) Check below, above and around platform for any obstruction or hazards before operating any function
3) Depress the green power button or the foot switch located in the platform floor (if applicable).
4) Select handlever controls marked 3, 4, 5.

Control 3 – Operates lower boom	Up for up Down for down
Control 4 – Operates upper boom	Up for up Down for down
Control 5 – Operates swing	Up for right Down for left

THIS MACHINE IS NOT ELECTRICALLY INSULATED. DO NOT WORK WITHIN 3M (10FT) OF OVERHEAD CABLES EXCEEDING 415 VOLTS.

TOWING

THE MAXIMUM TOWING SPEED OF A NIFTYLIFT IS 45 MPH (72 KPH) WITH A VEHICLE THAT COMPLIES WITH ALL ROAD TRAFFIC REGULATIONS. SPEEDING MAY RESULT IN DEATH OR SERIOUS INJURY.

It is recommended that the maximum towing speed of 45mph (72kph) be adhered to for the greatest safety. In other than perfect conditions it is sensible to further reduce your speed in order to ensure full control over your vehicle and trailer. The importance of the suitability of your towing vehicle must be stressed. The manufacturers' details concerning each model will give you recommended Gross Vehicle Weights (GVW) or Gross Train Weights (GTW) neither of which should be exceeded.

POSITION TOWING VEHICLE AND TRAILER ON LEVEL GROUND BEFORE ATTEMPTING TO COUPLE/DE-COUPLE.

COUPLING INSTRUCTIONS

1) Depress the trigger on the lever mechanism and lift the handle upwards and forward.
2) Place the unlocked coupling head onto the towing ball and apply slight downward pressure. The head will automatically lock onto the ball.
3) Ensure that the trigger has returned to its free position before attempting to tow, and that the coupling head is securely on the towing ball.
4) Connect the breakaway cable/chain to the towing vehicle hitch – not to the tow ball itself.
5) Connect the lighting plug to the vehicle and check the light functions.
6) Raise the jockey wheel to its stowed position and secure for transit.

DE-COUPLING INSTRUCTIONS

1) Apply trailer handbrake and chock wheels.
2) Lower the jockey wheel to the ground. Disconnect the breakaway cable/chain and lighting plug.
3) Operate the handle by depressing the trigger and manually lift the coupling head clear of the towing ball or screw down the telescopic jockey wheel to achieve the same effect.

HANDBRAKE OPERATION

1) To operate the trailer parking brakes pull the handbrake lever upwards and backwards. The spring loaded mechanism will engage and stay in the operated position until re-set.
2) To dis-engage the parking brakes, firmly grasp the handbrake lever and pull upwards. Depress the ratchet release button in the end of the handbrake lever and return the lever to the horizontal position. Care should be taken when operating the handbrake lever due to the forces involved in engaging the ratchet mechanism.

EMERGENCY CONTROLS

GENERAL

CHECKING THE OPERATION OF THE EMERGENCY CONTROLS EVERY DAY AND/OR BEFORE EACH SHIFT IS AN ESSENTIAL PART OF THE OPERATORS DUTIES.

The operator and all ground personnel must be thoroughly familiar with the location and operation of the EMERGENCY CONTROLS.

IN THE EVENT OF AN INCAPACITATED OPERATOR.

Turn key switch selector at ground control station to ground (i.e. fully down). Lower on ground controls as detailed under Section: Ground Control Operation.

IN THE EVENT OF MACHINE FAILURE.

Operate manual hand pump (located adjacent to the base controls) and lower cage to ground using either cage or base controls.

TO ROTATE PLATFORM IN AN EMERGENCY.

Fit 1/2 inch drive socket on to end of slew worm gear and crank round manually.

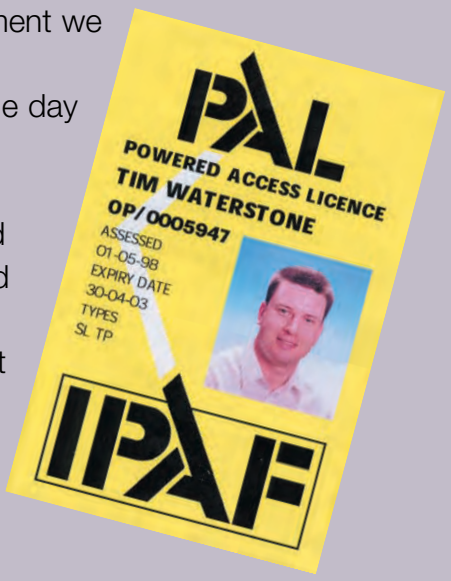
NOTES

facelift
access and safety made easy

0800 52 15 95
www.facelift.co.uk

operator training centre

When hiring access equipment we strongly recommend taking advantage of one of our one day operator training courses



As Facelift is an accredited IPAF (Independent Powered Access Federation) training centre you can be sure that your staff will be trained to a high standard and receive an internationally recognised qualification.

Courses can take place on your own premises or at one of our training centres, situated in Hickstead, Iver, Southampton and Liverpool.

We can train your personnel on any of the following equipment:

(SL) Scissor Lift
(SPB) Self Propelled Boom
(VMP26) Truck/Van mounted to 26m
(VMP200) Truck mounted over 26m
(VPP) Vertical Personnel Platform
(TP) Trailer/Push around

The one day course* covers site safety, practical demonstration, sole usage and site risks and includes a theory test.

*(two day course for VMP200)

Successful candidates are issued with the IPAF PAL card, widely accepted by both the CITB and Health And Safety Executive.

For further information or to arrange a training course call us today on: 0800 0 72 55 72